

Package ‘RcppTOML’

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Type Package

Title 'Rcpp' Bindings to Parser for ``Tom's Obvious Markup Language''

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Description The configuration format defined by 'TOML' (which expands to ``Tom's Obvious Markup Language'') specifies an excellent format (described at <https://toml.io/en/>) suitable for both human editing as well as the common uses of a machine-readable format. This package uses 'Rcpp' to connect to the 'toml++' parser written by Mark Gillard to R.

SystemRequirements A C++17 compiler

BugReports <https://github.com/eddelbuettel/rcpptoml/issues>

URL <http://dirk.eddelbuettel.com/code/rcpp.toml.html>

Imports Rcpp (>= 1.0.8)

Depends R (>= 3.3.0)

LinkingTo Rcpp

Suggests tinytest

License GPL (>= 2)

NeedsCompilation yes

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Description

TOML (“Tom’s Obvious Markup Language”) is a configuration file grammar for humans. It is easier to read and edit than the alternatives yet arguably more useful as it is strongly typed: values come back as integer, double, (multiline-) character (strings), boolean or Datetime. Moreover, complex nesting and arrays are supported as well.

Details

At present, a single parsing function `parseTOML` (with convenience aliases `tomlparse` and `parseToml`) is implemented. It returns a list object corresponding to the configuration from the supplied file.

Author(s)

Dirk Eddelbuettel put together the R package. Charles Geigle wrote the `cptoml` parser. Tom Preston-Werner is the Tom behind TOML.

Maintainer: Dirk Eddelbuettel <edd@debian.org>

References

TOML: <https://toml.io/en/>

Examples

```
library(RcppTOML)

file <- system.file("toml", "example.toml", package="RcppTOML")

toml <- parseTOML(file) # given file, return parsed object

summary(toml)          # really sparse summary method
print(toml)           # print is a wrapper around str()
```

| | |
|-----------|--------------------------|
| parseTOML | <i>Parse a TOML file</i> |
|-----------|--------------------------|

Description

The function `parseTOML`, also aliased to `tomlparse` and `parseToml`, parse TOML content inout. This is usually a file given by its name, or a character variable with a TOML expression.

Usage

```
parseTOML(input, verbose = FALSE, fromFile = TRUE, includize = FALSE,
  escape = TRUE)

tomlparse(...)

parseToml(...)

## S3 method for class 'toml'
print(x, ...)

## S3 method for class 'toml'
summary(object, ...)
```

Arguments

| | |
|------------------------|--|
| <code>input</code> | [character] TOML input, either as chracter value or path to TOML file |
| <code>verbose</code> | [logical] Optional verbosity flag, no current effect |
| <code>fromFile</code> | [logical] Optional with default value ‘TRUE’ indicating parsing from file |
| <code>includize</code> | [logical] Optional legacy option, no current effect |
| <code>escape</code> | [logical] Optional boolean whether strings should be escaped, defaults to ‘TRUE’ |
| <code>...</code> | Used for aliased function and S3 methods |
| <code>x</code> | Used for S3 method |
| <code>object</code> | Used for S3 method |

Details

This implementation uses the ‘tomlplusplus’ library by Mark Gillar (see <https://github.com/marzer/tomlplusplus>) which is TOML 1.0 compliant. In earlier work the package used the ‘cpp-toml’ library by Chase Geigle (see <https://github.com/skystrife/cpptoml> for which development ceased once TOML 0.5.0 parity was reached.

Value

A list object with the parsed content as an S3 object of class ‘toml’

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